



6-23-06

IFW

03500.017541

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
HIDEYUKI SUGIOKA, ET AL.) Examiner: Unassigned
Application No.: 10/526,957) Group Art Unit: 3753
Filed: March 4, 2005)
For: LIQUID DELIVERY DEVICE) June 23, 2006

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the following U.S. Applications:

	<u>INVENTOR(S)</u>	<u>APPLICATION NO.</u>	<u>FILING DATE</u>
SMA ↓	Takeo Yamazaki, et al.	11/030,289	January 7, 2005
	Takeo Yamazaki, et al.	10/480,045	December 9, 2003
	Takeo Yamazaki, et al.	10/480,040	December 9, 2003

CONCLUSION

It is respectfully requested that the above information be considered by the Examiner.

S Hepperle

1/07

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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed Japanese documents and articles are also enclosed.

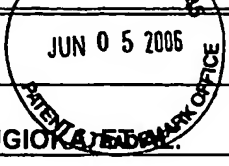
The concise explanations of relevance for the non-English documents are provided by their accompanying English-language abstracts and the relevant disclosure in the Background Art section of the specification.

The Examiner's attention is also directed to the following U.S. Application:

<u>INVENTOR(S)</u>	<u>APPLICATION NO.</u>	<u>FILING DATE</u>
<i>JE</i> Takahiro Ezaki, et al.	11/285,069	November 23, 2005

S Hepperle

1/07

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Submitted to the PTO: June 5, 2006		ATTY DOCKET NO. 03500.017541		APPLICATION NO. 10/526,957			
							
		APPLICANT HIDEYUKI SUGIOKA, ET AL.					
		FILING DATE March 4, 2005		GROUP 3753			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>SMA</i>		6,533,400	03/2003	Kudo, et al.	347	63	
<i>SMA</i>		2005/0265899	12/2005	Imamura, et al.	422	100	
<i>SMA</i>		2006/0054226	03/2006	Yamazaki, et al.	137	827	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
<i>SMA</i>		10/337173	12/1998	Japan	—	—	Abstract
<i>SMA</i>		5-1669	01/1993	Japan	—	—	Abstract
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>SMA</i>		J.H. Tsai, et al., "A Thermal Bubble Actuated Micro Nozzle-Diffuser Pump", Proceedings of the 14 th , IEEE International Conference on Micro Electro Mechanical Systems, pp. 409-412 (2001).					
<i>SMA</i>		J.S. Ko, et al., "Development and Application of a Laterally Driven Electromagnetic Microactuator", Phys. Lett., Vol. 81, No. 3, pp. 547-549 (July 15, 2002).					
<i>SMA</i>		J. Qiu, et al., "A Centrally-Clamped Parallel-Beam Bistable MEMS Mechanism", Proceedings of MEMS, pp. 353-356 (2001).					
EXAMINER <i>S Hepperle</i>				DATE CONSIDERED <i>1/07</i>			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SDM/rrm

Sheet 1 of 1

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FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Submitted to the PTO: March 4, 2005			ATTY DOCKET NO. 03500.017541		APPLICATION NO. 10/526957 To be assigned D:07 Rec'd PCT/PTC 04 MAR 2005		
			APPLICANTS HIDEYUKI SUGIOKA, ET AL.		FILING DATE March 4, 2005		
					GROUP To be assigned		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>SA</i>		2,893,416	07/1959	Hegstad	137	119	
		3,082,748	03/1963	Vogel	121	123	
		3,112,768	12/1963	Thompson	137	625.5	
		3,768,521	10/1973	Brychta, et al.	137	832	
		6,131,880	10/2000	Hahn, et al.	251	129.16	
<i>SA</i>		6,283,440	09/2001	Evans	251	11	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
<i>SA</i>		WO 02/33268	04/2002	PCT	—	—	
<i>SA</i>		WO 02/40874	05/2002	PCT	—	—	
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER		<i>S Hepperle</i>			DATE CONSIDERED <i>1/07</i>		

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